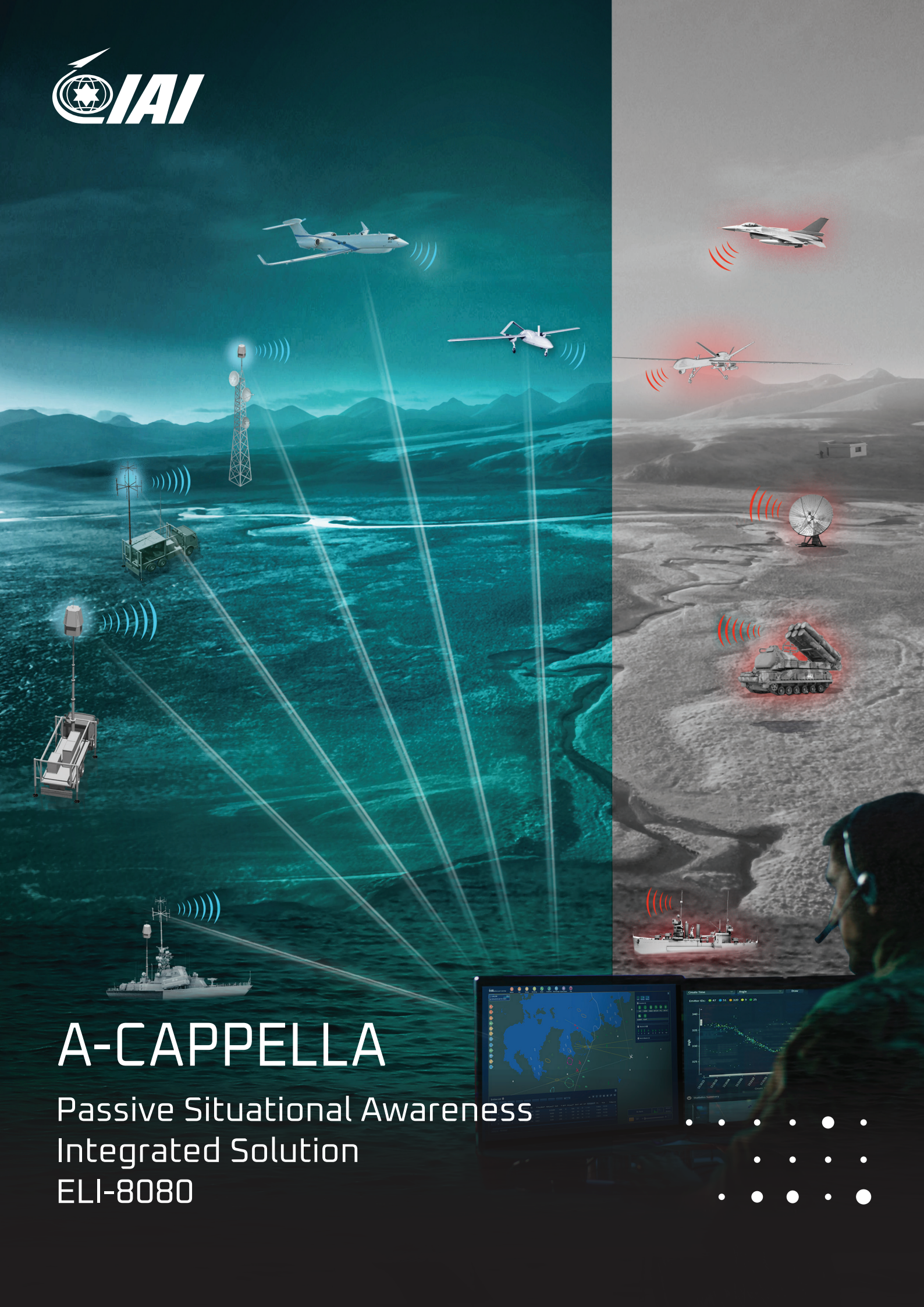

A-CAPPELLA

Passive Situational Awareness
Integrated Solution
ELI-8080

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Passive Situational Awareness Integrated Solution
ELI-8080

A-cappella (ELI-8080) is a real-time system that manages, collects, processes and analyzes unprocessed as well as processed output data from passive sensors in order to form an optimal joint situational awareness picture. A-cappella supports all passive sensors used in air, ground and maritime surveillance, including ELINT, COMINT, CELLINT, Passive Coherent Locator (PCL), IFF (ADS-B and AIS) and Electro-optics. The system is sensor-agnostic and supports passive sensor data from all vendors.

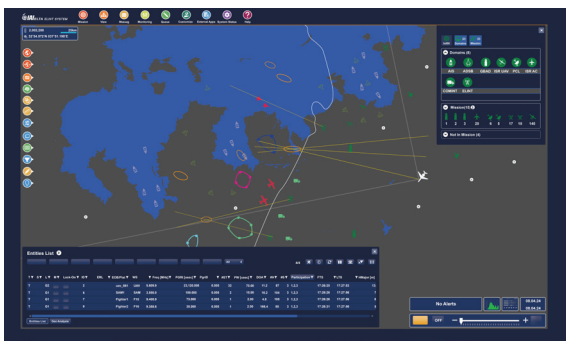
A-cappella receives sensor data about emitting and non-emitting targets such as radars, cellular, radio and data communications. Targets are detected, geolocated, classified, analyzed, and tracked within the system, which generates and displays an integrated unified passive air, maritime and ground situation picture, as well as target data and actionable intelligence insights. This intelligence data is used by operational and intelligence centers to support situational awareness and operational decisions.

A-cappella provides advanced analysis and inference of target data. It can discriminate between closely situated targets, monitor large volume of targets, and intelligently prioritize threats. It applies AI, including rule-based engines, Machine Learning (ML), and big-data analytics tools, to facilitate insight analysis, update classification libraries, and identify patterns of anomalies that would otherwise remain undetected. Targets gathered by A-cappella can be used to cue external systems accurately and rapidly.

A-cappella can be installed on a single platform such as an aircraft or vessel, in order to integrate and aggregate the platform's passive sensors, or at a regional facility in order to monitor the full arena.

KEY FEATURES

- Form a real-time unified situational awareness picture, combining multidisciplinary passive sensors
- Passive sensor management and cueing; prioritize and assign sensors to missions
- Unified sensor output: single POC for external systems using NATO STANAG compatible interface
- Advanced signals analysis, including target classification and operational mode identification
- Support pre-mission planning, post-mission analysis, and training activities
- Provide intelligence insights via AI, rule-based engines, and big-data analytic tools
- Automated support for updating the electronic parameter library



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